

Circulation Algorithm (CA)

PROGRAM/PROJECT: Aviation Weather Research Program/Advanced Weather Radar Techniques Product Development Team [<http://www.faa.gov/aua/awr/>]

LEAD AGENCY/COLLABORATING AGENCIES: Federal Aviation Administration (FAA), the National Oceanic and Atmospheric Administration (NOAA)

LEAD AGENCY POINT OF CONTACT: Jim Sheets, 202-314-1121, james.sheets@auatac.com

PROGRAM POINT OF CONTACT: Kim Elmore, NOAA/NSSL, 405-366-0458, kim.elmore@noaa.gov

SERVICE AREA(S)/INITIATIVE (S)

- *National Aviation Weather Initiatives:*
2: 5

FUNDING

- *Programmed/Planned (\$'s/FY):* TBD /FY04

TYPE OF PROGRAM/APPLICATION

R&D/Product Development

SCOPE OF PROGRAM/PROJECT

- *What's being developed, procured, etc: more robust and reliable circulation detection algorithms.*
- *How will operations be changed/improved: reduce false alarm rate and improve diagnosis of storm severity and longevity.*

PROGRAM/PROJECT MANAGEMENT

- *Basic guidance document for this program:* AWRP Technical Direction for the NEXRAD Enhancements Product Development Team.
- *Program/Project verification process:* Monthly and Quarterly Reporting, Program Reviews, and RE&D Advisory Committee Project Assessments.
- *Method used for product validation:* N/A
- *Operational training for the user:* N/A

SCHEDULE/IMPLEMENTATION

- *Next major program milestone:* Pursue case analysis of Local Linear Least Squares circulation detection techniques, expanding technique to multiple radars.
- *Program becomes operational:* FY07.
- *Plans for further improvements:* TBD